

## GARNET SPECIFICATIONS

GRADE: # 80

### MINERAL COMPOSITION

MINERALS	Standard (%)
GARNET	MIN 97 %
ILMENITE	< 2 %
MONAZITE	< 0.25 %
OTHERS	< 0.75 %

### PHYSICAL CHARACTERISTICS

Test Parameter	Standard	Typical (%)
Conductivity	Max 250 $\mu\text{s}/\text{cm}$	145 $\mu\text{s}/\text{cm}$ at 25.5°C
Chloride	Max 25 PPM	18 PPM
Hardness	Min 7 Moh Scale	7 Moh Scale
Moisture	Max 0.20%	0.13%
Total Suspended Solids	Max 2000 mg/l	1750 mg/l
Bulk Density	2.20 - 2.40 $\text{g}/\text{cm}^3$	2.32 $\text{g}/\text{cm}^3$

### CHEMICAL COMPOSITION

Elements	Standard (%)	Typical (%)
SiO <sub>2</sub>	33.0 - 37.0 %	34.86
Al <sub>2</sub> O <sub>3</sub>	19.0 - 22.0%	20.82
Fe <sub>2</sub> O <sub>3</sub>	31.0 - 37.0%	36.50
MgO	3.0 - 8.0 %	3.48
CaO	1.0 - 3.0 %	2.11
TiO <sub>2</sub>	0.20 - 2.0 %	1.62

### SIEVE ANALYSIS

Microns (MM)	Mesh	Standard (%)
0.300	+50	0.2 - 1
0.250	+60	20 - 30
0.180	+80	35 - 50
0.150	+100	15 - 25
0.125	+120	5 - 10
PAN		2 - 5

Note: Garnet is a natural product. Variations in the grain size occur from time to time.

The grain size distributions can be expected within the above ranges.

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